## We claim:

5

10

15

20

25

30

- 1. A cleansing composition comprised of:
- a) at least one water soluble silicone agent;
- b) at least one cationic conditioning agent; and
- c) at least one detergent.
- 2. The composition of claim 1 wherein the water soluble silicone agents are selected from water soluble dimethicones substituted with fatty acid moieties, water soluble silicone quaterniums, and mixtures thereof.
- 3. The composition of claim 1 wherein the dimethicones are substituted with fatty acid moieties selected from fatty acids having from about 5 carbon atoms to about 30 carbon atoms and the silicone quaterniums contain about 6 carbon atoms to about 20 carbon atoms.
- 4. The composition of claim 1 wherein the water soluble volatile silicone agents are selected from the group consisting of polydimethylsiloxane, hexamethyldisiloxane, cyclomethicone fluids, and mixtures thereof.
- 5. The composition of claim 1 wherein the water soluble non-volatile silicone agents are selected from the group consisting of cetyl triethylmonium dimethicone copolyol phthalate, stearalkonium dimethicone copolyol phthalate, dimethicone copolyol having the following structure:

$$CH_3$$
 | Si(CH<sub>3</sub>)<sub>3</sub>-O--[-Si(CH<sub>3</sub>)<sub>2</sub>O--]  $_{q'}$  ---[-Si-O--] $_{q''}$  - Si(CH<sub>3</sub>)<sub>3</sub> | R<sub>9</sub> | I.

Wherein:

q' is an integer from about 1 to about 7000;

q" is an integer from about 1 to about 5000;

R<sub>9</sub> may be any water soluble group such as:

- a) a fatty alcohol having from about 8 carbon atoms to about 30 carbon atoms;
- b) a fatty acid having from about 8 carbon atoms to about 30 carbon atoms, and derivatives thereof;
  - c) a crosslinked water soluble polymer such as mercaptol propyl copolymer;
  - d) a cationic moiety, e.g. trimonium chloride;
  - e) propyl PG- Betaine;

JBP-452

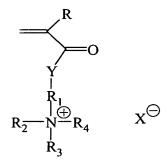
- f) polypeptides such as polysarcosine, and
- e) mixtures thereof,
- dimethicone copolyol acetate, dimethicone copolyol lactate, dimethicone copolyol laurate, dimethicone copolyol methyl ether, dimethicone copolyol octyl dodecyl citrate, hydrolyzed soy protein/dimethicone copolyol acetate, dimethiconol, and mixtures thereof.
  - 6. The composition of claim 2 wherein the water soluble silicone quaterniums are selected from the group consisting of silicone quaternium 13, silicone quaternium 40, quaternium 80, and mixtures thereof.
  - 7. The composition of claim 1 wherein the water soluble silicone agents include silicone quaternium 13, cetyl triethylmonium dimethicone copolyol phthalate, stearalkonium dimethicone copolyol phthalate, and mixtures thereof.
    - 8. The composition of claim 1 comprised of, based upon the total weight of the composition,
    - a) from about 0.001 percent to about 20 percent of water soluble silicone agents;
    - b) from about 0.01 percent to about 10 percent of cationic conditioning agents; and
    - c) from about 0.01 percent to about 30 percent of detergent.
    - 9. The composition of claim 1 comprised of, based upon the total weight of the composition,
    - a) from about 0.01 percent to about 5 percent of water soluble silicone agents;
    - b) from about 0.1 percent to about 5 percent of cationic conditioning agents; and
    - c) from about 5 percent to about 20 percent of detergent.
  - 10. The composition of claim 1 wherein the cationic conditioning agent is selected from the group consisting of a cationic cellulose derivative; a cationic guar derivative; a homopolymer or copolymer of a cationic monomer selected from:

20

10

15

a. a monomer having the formula



wherein

R is H or CH<sub>3</sub>,

Y is O or NH,

R<sub>1</sub> is an alkylene group having from about 2 to about 6 carbon atoms,

 $R_2$ ,  $R_3$  and  $R_4$  are each independently an alkyl group or hydroxyalkyl group having from about 1 to about 22 carbon atoms, and

X is a monovalent anion selected from halide and alkyl sulfate having from about 1 to about 4 carbon atoms, or

b. diallyldimethylammonium chloride,

10 and mixtures thereof.

5

15

20

25

- 11. The composition of claim 10 wherein the cationic conditioning agent is selected from the group consisting of polyquaternium-10, guar hydroxypropyltrimonium chloride, compounds derived from acrylamidopropyl trimonium chloride/acrylamide copolymer, polyquaternium-6, polyquaternium-7, polyquaternium-47, and mixtures thereof.
- 12. The composition of claim 11 wherein the cationic conditioning agent is selected from the group consisting of acrylamidopropyltrimonium chloride/acrylamide copolymer, guar hydroxypropyltrimonium chloride, and mixtures thereof.
  - 13. The composition of claim 1 wherein the detergent is a surfactant, soap, or mixture thereof.
- 14. The composition of claim 1 wherein the surfactant is comprised of at least one anionic surfactant.
- 15. The composition of claim 1 wherein the detergent is comprised of, based upon the total weight of the detergent,
  - a) from about 1 percent to about 20 percent of an anionic surfactant;
  - b) from about 1 percent to about 10 percent of an amphoteric surfactant;
  - c) from about 0 percent to about 4 percent of a cationic surfactant; and
  - d) from about 1 percent to about 7 percent of a nonionic surfactant.
- 16. The composition of claim 1 wherein the detergent is comprised of, based upon the total weight of the detergent,

JBP-452

- a) from about 80 percent to about 95 percent of an anionic surfactant selected from the group consisting of alkyl sulfates, alkyl ether sulfates, and mixtures thereof wherein the alkyl groups have from about 8 carbon atoms to about 18 carbon atoms; and
- b) from about 5 percent to about 15 percent of an amphoteric surfactant containing at least a cocamidopropyl betaine.
- 17. The composition of claim 1 wherein the detergent is comprised of, based upon the total weight of the detergent,
- a) from about 70 percent to about 90 percent of an anionic surfactant selected from the group consisting of sodium PEG-7 olive oil carboxylate, alkyl sulfates, alkyl ether sulfates, and mixtures thereof wherein the alkyl group has from about 8 carbon atoms to about 18 carbon atoms;
- b) from about 10 percent to about 25 percent of an amphoteric surfactant containing at least a cocamidopropyl betaine; and
  - c) from about 2 percent to about 10 percent of a cationic surfactant.
  - 18. The composition of claim 1 further comprising at least one benefit agent.
- 19. The composition of claim 18 wherein the benefit agent is selected from the group consisting of elubiol, 6-(1-piperidinyl)-2,4-pyrimidinediamine-3-oxide, shale oil and derivatives thereof, finasteride, ketoconazole, salicylic acid, zinc pyrithione, coal tar, benzoyl peroxide, selenium sulfide, hydrocortisone, sulfur, menthol, pramoxine hydrochloride, tricetylammonium chloride, polyquaternium 10, panthenol, panthenol triacetate, vitamin A and derivatives thereof, vitamin B and derivatives thereof, vitamin C and derivatives thereof, vitamin D and derivatives thereof, vitamin E and derivatives thereof, vitamin K and derivatives thereof, keratin, lysine, arginine, hydrolyzed wheat proteins, hydrolyzed silk proteins, octyl methoxycinnamate, oxybenzone, minoxidil, titanium dioxide, zinc dioxide, retinol, erthromycin, tretinoin, and mixtures thereof.
- 20. The composition of claim 18 further comprising, based upon the total weight of the composition, from about 0.001 percent to about 20 percent of the benefit agent
  - 21. The composition of claim 18 further comprising a suspending agent.
- 22. The composition of claim 21 wherein the composition is comprised of, based upon the total weight of the composition, from about 0.01 percent to about 5 percent of the suspending agent.
- 23. The composition of claim 21 wherein the suspending agent is selected from the group consisting of carbomer, hydroxyethyl cellulose, methylvinylether/maleic anhydride copolymer crosslinked

10

15

20

25

- with 1,9-decadiene PolyVM/MA (PVM/MA decadiene crosspolymer), Acrylates/Aminoacrylates C10-30 Alkyl PEG-20 Itaconate Copolymer, and mixtures thereof.
- 24. The composition of claim 1 in the form of a shampoo, a gel, a bath, a cream, a lotion, or a mousse.
  - 25. The use of the composition of claim 1 to cleanse the skin, hair and/or nails.
- 26. A delivery system for delivering benefit agents into and/or onto the hair, nails, and scalp comprised of:
  - a) at least one water soluble silicone agent; and
  - b) at least one cationic conditioning agent.
- 27. The delivery system of claim 26 wherein the delivery system is comprised of, based upon the total weight of the delivery system:
  - a) from about 0.001 percent to about 10 of at least one water soluble silicone agent; and
  - b) from about 0.001 percent to about 5 percent of at least one cationic conditioning compounds.
- 28. The delivery system of claim 26 wherein the water soluble silicone agent contains at least a silicone quaternium-13, a cetyl triethylmonium dimethicone copolyol phthalate, or a mixture thereof and the cationic conditioning agent contains at least a guar hydroxypropyltrimonium chloride, an acrylaminopropyltrimonium chloride/acrylamide copolymer, or a mixture thereof.
- 29. A method for enhancing the deposition of benefit agents which comprises topically administering to a human or animal a composition comprised of:
  - a) a delivery system comprised of
- i) at least two cationic conditioning compounds selected from the group consisting of guar hydroxypropyltrimonium chloride, acrylaminopropyltrimonium chloride/acrylamide copolymer, and mixtures thereof:
- ii) at least one water soluble silicone compound comprised of silicone quaternium-13; andb) an effective amount of a benefit agentto a desired location on the skin, hair, and/or nails.
- 30. The method of claim 29 wherein the benefit agent is elubiol, shale oil and derivatives thereof, 6-(1-piperidinyl)-2,4-pyrimidinediamine-3-oxide, finasteride; ketoconazole, salicylic acid, zinc pyrithione, coal tar, benzoyl peroxide, selenium sulfide, hydrocortisone, sulfur, menthol, pramoxine hydrochloride, tricetylammonium chloride, polyquaternium 10, panthenol, panthenol triacetate, vitamin A and derivatives thereof, vitamin B and derivatives thereof, vitamin C and derivatives thereof, vitamin D and derivatives thereof, vitamin E and derivatives thereof, vitamin K and derivatives thereof, keratin, lysine, arginine,

10

15

20

25

hydrolyzed wheat proteins, hydrolyzed silk proteins, octyl methoxycinnamate, oxybenzone, minoxidil, titanium dioxide, zinc dioxide, retinol, erthromycin, tretinoin, and mixtures thereof.

- 31. The method of claim 29 wherein the composition is further comprised of a detergent.
- 32. A method for depositing a thin coating of conditioner on a hair fiber, comprised of:
- a) topically applying an effective amount of a delivery system composition comprised of
- i) at least two cationic conditioning compounds selected from the group consisting of guar hydroxypropyltrimonium chloride, acrylaminopropyltrimonium chloride/acrylamide copolymer, and mixtures thereof;
- ii) at least one water soluble silicone compound comprised of cetyl triethylmonium dimethicone copolyol phthalate; and
  - iii) a hydrophilic benefit agent

to a desired location on the hair of a human or animal.

- 33. A method for treating hair loss comprising topically administering to a human or animal at a desired area for treating hair loss a composition comprised of , based upon the total weight of the composition,:
  - A. a delivery system comprised of
    - i.) at least one water soluble silicone agent;
    - ii) at least one cationic conditioning agent; and
  - B. an effective amount of a hair loss treatment agent.
  - 34. The method of claim 33 wherein the composition is further comprised of a detergent.
- 35. The method of claim 33 wherein the hair loss treatment agent is selected from minoxidil, N"-cyano-N-(tert-pentyl)-N'-3-pyridinyl-guanidine, diazoxide, vitamin E, vitamin C, vitamin E acetate, vitamin C palmitate; erythropoietin; prostaglandin E1, prostaglandin F2-alpha; oleic acid; heat shock protein 27 ("HSP 27"), heat shock protein 72 ("HSP 72"); verapamil HCL, nifedipine, diltiazemamiloride, cyclosporin, Fk-506; finasteride, 17-beta estradiol, EGF, FGF, benoxaprofen, tretinoin, IL-6, IL-1alpha, and IL-1beta ICAM, betametasone, aloe, clove, ginseng, rehmannia, swertia, sweet orange, zanthoxylum, elubiol, ketoconazole, zinc pyrithione; streptomycin; cycloheximide; or mixtures thereof.
- 36. The method of claim 33 wherein the hair loss treatment agent is 6-(1-piperidinyl)-2,4-pyrimidinediamine-3-oxide, N"-cyano-N-(tert-pentyl)-N'-3-pyridinyl-guanidine, a retinoid and derivatives thereof, finasteride, minoxidil, ketoconazole, or mixtures thereof.
- 37. The method of claim 33 wherein the hair loss treatment agent is present in an amount, based upon the total weight of the composition, from about 0.001 percent to about 20 percent.

5

10

15

20

25

- 38. A method for inhibiting hair growth comprising topically administering to a human or animal at a desired area for inhibiting hair growth a composition comprised of, based upon the total weight of the composition,:
  - A. a delivery system comprised of
  - i.) at least one water soluble silicone agent;
  - ii) at least one cationic conditioning agent; and
  - B. an effective amount of a hair growth inhibiting agent.
- 39. The method of claim 38 wherein the hair growth inhibiting agent is selected from antineoplasite agents; anticoagulants; antithyroid drugs; lithium; lithium carbonate; interferons; retinoids; antihyperlipidaemic drugs; thallium; mercury; albendazole; allopurinol; amiodarone; amphetamines; androgens; bromocriptine; butyrophenones; carbamazepine; cholestyramine; cimetidine; clofibrate; danazol; desipramine; dixyrazine; ethambutol; etionamide; fluoxetine; gentamicin; gold salts; hydantoins; ibuprofen; impramine; immunoglobulins; indandiones; indomethacin; intraconazole; levadopa; maprotiline; methysergide; metoprolol, metyrapone; nadolol;, nicotinic acid; potassium thiocyanate; propranolol, pyridostimine; salicylates; sulfasalazine; terfenadine; thiamphenicol; thiouracils; trimethadione; troparanol; valproic acid or mixtures thereof.
- 40. The method of claim 38 wherein the hair growth inhibiting agent is a serine protease, retinol, isotretinoin, betamethisone, alpha-tocophenol and derivatives thereof, or a mixture thereof.
- 41. The method of claim 38 wherein the hair growth inhibiting agent is present in an amount, based upon the total weight of the composition, from about 0.001 percent to about 20 percent.
  - 42. The method of claim 38 further comprising a detergent.
- 43. A method for treating or minimizing the effects of aging comprising topically administering to a human or animal at a desired area a composition comprised of, based upon the total weight of the composition,:

A. a delivery system comprised of

- i.) at least one water soluble silicone agent;
- ii) at least one cationic conditioning agent; and
- B. an effective amount of an anti-aging active agent.
- 44. The method of claim 43 wherein the anti-aging active agent is selected from sunscreens; retinoids and derivatives thereof; vitamins and derivatives thereof; antioxidants; hydrocarboxy acids; botanical extracts; or mixtures thereof.
- 45. The method of claim 43 wherein the anti-aging active agent is retinol, tretinoin, or mixtures thereof.
- 46. The method of claim 43 wherein the anti-aging active agent is present in an amount, based upon the total weight of the composition, from about 0.01 percent to about 10 percent.
  - 47. The method of claim 43 wherein the composition is further comprised of a detergent.

JBP-452

5

10

15

20

25

30

- 48. A method for treating acne comprising topically administering to a human or animal at a desired area a composition comprised of, based upon the total weight of the composition;:
  - A. a delivery system comprised of

10

15

20

25

30

- i.) at least one water soluble silicone agent;
- ii) at least one cationic conditioning agent; and
- B. an effective amount of an anti-acne active agent.
- 49. The method of claim 48 wherein the anti-acne active agent is selected from imidazoles; retinoids; salicylic acid; benzoyl peroxide; antibiotics; antiandrogens; 5-alpha-reductase isotypes; anti-inflammatory agents; botanical extracts; or mixtures thereof.
- 50. The method of claim 48 wherein the anti-acne active agent is retinol, elubiol, an antibiotic, salicylic acid or mixtures thereof.
- 51. The method of claim 48 wherein the anti-acne active agent is present in an amount, based upon the total weight of the composition, from about 0.01 percent to about 10 percent.
  - The method of claim 48 wherein composition is further comprised of a detergent.
- 53. A method for depigmenting skin comprising topically administering to a human or animal at a desired area a composition comprised of, based upon the total weight of the composition,:
  - A. a delivery system comprised of
  - i.) at least one water soluble silicone agent;
  - ii) at least one cationic conditioning agent; and
  - B. an effective amount of a depigmentation active agent.
- 54. The method of claim 53 wherein the depigmentation active agent is selected from retinoids and derivatives thereof; kojic acid and its derivatives; hydroquinone and derivatives thereof; transexamic acid; vitamins; azelaic acid; botanical extracts or mixtures thereof.
- 55. The method of claim 53 wherein the depigmentation active agent is kojic acid, retinol, hydroquinone, transexamic acid or mixtures thereof.
- 56. The method of claim 53 wherein the depigmentation active agent is present in an amount, based upon the total weight of the composition, from about 0.01 percent to about 10 percent.
  - 57. The method of claim 53 wherein the composition is further comprised of a detergent.
- 58. A method for treating the diseases of dandruff, seborrheic dermatitis, and psoriasis and/or the symptoms associated therewith comprising topically administering to a human or animal at a desired area a composition comprised of, based upon the total weight of the composition,:
  - A. a delivery system comprised of
    - i.) at least one water soluble silicone agent;
    - ii) at least one cationic conditioning agent; and
- B. an effective amount of a benefit agent selected from the group consisting of an antidandruff agent, an anti-seborrheic dermatitis agent, an anti-psoriasis agent, and mixtures thereof. JBP-452

- 59. The method of claim 58 wherein the anti-dandruff agent, the anti-seborrheic dermatitis agent, and the anti-psoriasis agent are selected from zinc pyrithione, selenium sulfide, sulfur; sulfonated shale oil; salicylic acid; coal tar; povidone-iodine, imidazoles such as ketoconazole, dichlorophenyl imidazolodioxalan, clotrimazole, itraconazole, miconazole, climbazole, tioconazole, sulconazole, butoconazole, fluconazole, miconazolenitrite and any possible stereo isomers and derivatives thereof such as anthralin; piroctone olamine (Octopirox); selenium sulfide; ciclopirox olamine; anti-psoriasis agents; vitamin A analogs; corticosteroids and mixtures thereof.
- 60. The method of claim 58 wherein the anti-dandruff agent, the anti-seborrheic dermatitis agent, and the anti-psoriasis agent are selected from elubiol, ketoconazole, coal tar, salicylic acid, zinc pyrithione, selenium sulfide, hydrocortisone, sulfur, menthol, pramoxine hydrochloride and mixtures thereof.
- 61. The method of claim 58 wherein the anti-dandruff agent, the anti-seborrheic dermatitis agent, and the anti-psoriasis agent are present in an amount, based upon the total weight of the composition, from about 0.001 percent to about 10 percent.
  - 62. The method of claim 58 wherein the composition is further comprised of a detergent.

10